

# ANUNȚ DE PARTICIPARE

privind Retehnologizarea TV – studioul nr. 5

prin procedura de achiziție: *Licitație deschisă*

1. Denumirea autorității contractante: *IP Compania „Teleradio-Moldova”*
2. IDNO: *1004600050558*
3. Adresa: *str. Miorița 1, mun. Chișinău*
4. Numărul de telefon/fax: *022 721047, 022 723352, 022 406935, 068760600, 068088984*
5. Adresa de e-mail și de internet a autorității contractante: [trm@trm.md](mailto:trm@trm.md), [www.trm.md](http://www.trm.md)
6. Adresa de e-mail sau de internet de la care se va putea obține accesul la documentația de atribuire: e-mail: [achizitii@trm.md](mailto:achizitii@trm.md), (*documentația de atribuire este anexată în cadrul procedurii în SIA RSAP , MTender*).
7. Tipul autorității contractante și obiectul principal de activitate (dacă este cazul, mențiunea că autoritatea contractantă este o autoritate centrală de achiziție sau că achiziția implică o altă formă de achiziție comună): *Instituție Publică*
8. Cumpărătorul invită operatorii economici interesați, care îi pot satisface necesitățile, să participe la procedura de achiziție privind livrarea/prestarea/ următoarelor bunuri /servicii/lucrări:

Sistemul video				Lot nr.1	
Nr. d/o	Cod CPV	Denumirea bunului	Descrierea bunurilor și specificarea tehnică (cerințe minime tehnice)	C-te.	Unitatea de măsură
	32224000-9	PTZ Camera	<p><b>Features</b>                      Large 1" type MOS sensor                      HDMI, SDI, and IP output up to UHD 4K                      20x optical, 32x iZoom in HD, 24x iZoom in UHD 4K                      Wide 75.1° horizontal angle of view (DRS)                      High Dynamic Range (HDR) mode with BT.2020 gamut support                      Optical Image Stabilization (IOS)                      Crop up to three shots from a single 4K image                      Large, adjustable tally light                      Adaptive Matrix function adjusts for strong LED blue light                      1/4, 1/16, 1/64 ND filters                      Audio input and embedding                      FreeD Support for Construction of AR/VR Systems                      Improved web UI for use with PC, tablet, or smartphone (iOS, Android)                      Maximum 180°/s pan/tilt in high-speed mode                      Monochrome Night Mode                      Digital Noise Reduction (DNR)                      Live streaming via RTMP                      Upgradable to NDI/HX with license</p> <p><b>Image Sensor</b>                      Image Sensor - 1-Chip 1" MOS Sensor                      Horizontal Resolution (TV Lines) - 1600 TV Lines                      Gain - 0 to 42 dB (Expanded)                      Signal-to-Noise Ratio - 60 dB                      Sensitivity - f/9 at 2000 lux                      White Balance Range - 2000 to 15,000K</p> <p><b>Camera</b>                      Shutter Speed - 1/24 to 1/10,000 sec                      Max Digital Zoom - 32x ( in 1080p)                      IR Cut Filter</p> <p><b>Lens</b>                      Optical Zoom Ratio - 20x                      Focal Length - 8.8 to 176mm                      35mm Equivalent Focal Length - 24.5 to 490mm                      Field of View - Horizontal: 75.1 to 4°; Vertical: 46.7 to 2.3°; Vertical: 82.8 to 4.6°.                      Maximum Aperture - f/2.8 to 4.5                      Minimum Focusing Distance - Wide: 3.9" / 9.9 cm; Telephoto: 39.6" / 100.6 cm                      Image Stabilization - Optical                      Focus Control – Autofocus; Manual Focus</p> <p><b>Video Output</b>                      Broadcast System Compatibility - NTSC, PAL                      Output Formats - SDI, HDMI, RJ45, Optical Fiber: 3840x2160p at 24, 25, 29.97, 50fps</p>	4	Buc.

			<p>1920 x 1080p at 25, 29.97, 50, 59.94 fps  1920 x 1080PsF at 23.98, 25, 29.97 fps  1920 x 1080i at 50, 59.94 fps</p> <p>Embedded Audio – HDMI/SDI  IP Streaming - H.264, H.265, MJPEG: 1080p, 720p at 25p, 30p, 50p, 60p</p> <p><b>Control</b>  Move Speed - Pan: 0.08 to 180°/sec; Tilt: 0.08 to 180°/sec  Movement Range - Pan: 350° (-175 to 175°); Tilt: 120° (-30 to 210°)  Tally Light  Supported Control Protocols - RS-232; RS-422</p> <p><b>Interfaces</b>  Video Output Connectors - 1 x HDMI Type A (HDMI 2.0) Male  1 x BNC Male (Loop Output)  1 x BNC (3G-SDI) Male</p> <p>Audio I/O - 1 x 1/8" / 3.5 mm Stereo Mic/Line Level Input  Control Interface - 1 x RJ45 (IP Control, RS-422)  Other I/O - 1 x BNC (Genlock) Input  Expansion Slots - 1 x SFP+ Slot</p> <p><b>Power</b>  PoE Support - PoE++ 802.3bt  Power Connectors - 1 x Proprietary (10.8 to 13.2 VDC)  <u>Include POE++ Injector 54 VDC at 1.5A Output Voltage, 80W Output Power, 100 to 240 AC at 50/60 Hz Input Voltage (EU) (Echivalent cu POE-54-80W)</u>  <u>Include Power Supply: 10.8 to 13.2 VDC at 4A HA216P-4S (4-pin ), 100 to 240 AC at 50/60 Hz Input Voltage (EU)</u></p>		
1.2	32224000-9	<b>Remote PTZ Camera Controller</b>	<p><b>Key Features</b>  Control up to 200 Compatible PTZ Cameras  Serial Control 5 Cameras Directly  Zoom/Focus Rocker Joystick  Touch Panel GUI, Touch Focus &amp; More</p> <p><b>General</b>  Number of Supported Cameras - 200 Channels via IP  5 Channels via RS-422  Control Interface - 1 x RJ45 (LAN)  Other I/O - 2 x 25-Pin D-Sub (GPI, Tally); 5 x RJ45 (RS-422, Tally)  Video Connectors - 1 x BNC (3G-SDI) Input; 1 x BNC (3G-SDI) (Loop Output)  Controls - 10 x Camera Selection Buttons  Memory Card Slot 1 x SDXC</p> <p><b>Display</b>  Size - 7"  Resolution - 800 x 480  Touchscreen</p> <p><b>Power</b>  PoE Support - PoH 802.3at  Power Connectors - 1 x 4-Pin XLR  DC Input Power - 10.8 to 13.2 VDC at 1 A</p>	1	Buc.
1.3	32224000-9	<b>Processor, keying</b>	<p>An advanced real time compositing processor designed for keying live action video with next generation broadcast graphics, virtual sets and more. Features new algorithms and color science, incredible edge handling and color separation, amazing color fidelity, and better spill suppression than ever before. The high performance 12G-SDI design gives you the power to work in UltraHD and HD with sub pixel processing for amazing image.</p> <p>Connections  SDI Video Inputs - 7, plus monitor in  SDI Video Outputs – 9  SDI Video Loop - 7 x relocked SD, HD, Ultra HD for corresponding inputs.  SDI Rates - 270Mb, 1.5G, 3G, 6G, 12G multi rate support  Reference Input - Tri-Sync or Black Burst  Reference Loop Output - Tri-Sync or Black Burst  Control Panel Connection - Ethernet supports 10/100Mbps.  GPIO - 5 x GPI In; 1 x GPI Out; 1 x Tally In.</p>	4	Buc.
1.4	32224000-9	<b>Remote Control for processor, keying</b>	<p>The Remote controls up to 8 unit id numbers via Ethernet or up to 8 unit id numbers via RS485. Its larger display area and adjustable stand, along with brightness controls for both display and button illuminations, makes the operation user-friendly. With "Monitor Out Views" accessible from every menu, Remote control provides the fastest and easiest navigation for every operator.</p> <p>User-friendly operation  Fast and easy navigation  Control up to 8 unit id numbers via RS485  Control up to 8 unit id numbers via Ethernet</p> <p>Connections  Software Updates - 2 x USB 2.0 and 1 x USB 3.0 for firmware updates.  SVGA Output - SVGA output allows graphic to be viewed on an external VGA monitor.  Ethernet - 2 x 10/100 Mbps Ethernet ports to connect to LAN networks for controlling processor, keying.  RS-422 - 2 x for controlling processor, keying.  Product Specifics  Rotary Knobs - 8 x rotary knobs for adjusting parameters.  Unit ID Buttons - 8 x buttons. Illuminated blue for active.  Unit ID LED Indicators - Illuminated green for on line and red for on air.  Alt+Quick Load/Save Buttons-Alt button plus 5 buttons for saving files into volatile RAM  Quick Load/Save Buttons - 5 x buttons for loading files stored in volatile RAM.  File Clear Button - 1 x button for One Touch Keying.</p>	1	Buc.

			<p>Alt + File Clear - Alt button plus file clear button for One Touch Keying using some user defined presets.</p> <p>Customizable Menus - 4 x menus for building your own menu with your most used controls.</p> <p>LED Control - User adjustable brightness control for LEDs.</p> <p>Fan Speed Control - User adjustable.</p> <p>Echivalent cu Ultimatte Smart Remote 4</p>		
1.5	32224000-9	<b>Videohub</b>	<p><b>Key Features</b></p> <ul style="list-style-type: none"> <li>Routing Switcher with Frame Syncing</li> <li>12 x 6G-SDI Inputs / 12 x 6G-SDI Outputs</li> <li>Supports SD, HD, Ultra HD 4K, DCI 4K</li> <li>4:2:2 and 4:4:4 Sampling</li> <li>10-Bit Processing</li> <li>SDI Reclocking</li> <li>Built-In LCD with Spin Knob Control</li> <li>Push Buttons on Front Panel</li> <li>Ethernet for Remote Control</li> <li>Videohub Control Software Included</li> </ul> <p><b>Connections</b></p> <ul style="list-style-type: none"> <li>SDI Video Input - 12 x 10-bit SD/HD/6G-SDI</li> <li>SDI Video Output - 12 x 10-bit SD/HD/6G-SDI</li> <li>Reference Input - Blackburst and TriSync for SD, HD and UHD 4K</li> <li>Multi-Rate Support - Auto detection of SD, HD, or 6G-SDI. Simultaneous routing of 4K, HD, SD video and DVB-ASI</li> <li>Updates - USB 2.0 high speed (480 Mb/s) interface or via Ethernet</li> <li>Control - 12 buttons for local control of Videohub <ul style="list-style-type: none"> <li>6 buttons and scroll wheel for control of LCD display</li> <li>1 x RJ45 Ethernet</li> <li>1 x RS-422 input for controlling router crosspoint switching</li> </ul> </li> <li>Configuration - Via front panel LCD or use either RJ45 Ethernet</li> <li>USB 2.0 for setting IP address only</li> <li>Reclocking - On all SDI outputs, auto switching between SD, HD, or 6G-SDI video</li> </ul> <p><b>Software</b></p> <ul style="list-style-type: none"> <li>Software Control - Router control included free for Windows and Mac OS X</li> <li>Internal Software Upgrade - Via included updater application</li> </ul> <p><b>General</b></p> <ul style="list-style-type: none"> <li>Display - LCD for video and menu settings</li> <li>Power Supply - IEC power cable required; 90 to 240 VAC input</li> </ul>	1	Buc.
1.6	32224000-9	<b>Videohub</b>	<p><b>Key Features</b></p> <ul style="list-style-type: none"> <li>Routing Switcher</li> <li>40 x 6G-SDI Inputs / 40 x 6G-SDI Outputs</li> <li>Supports SD, HD, Ultra HD 4K, DCI 4K</li> <li>4:2:2 and 4:4:4 Sampling</li> <li>10-Bit Processing</li> <li>SDI Reclocking</li> <li>Built-In LCD with Spin Knob Control</li> <li>Push Buttons on Front Panel</li> <li>Ethernet for Remote Control</li> <li>Videohub Control Software Included</li> </ul> <p><b>Connections</b></p> <ul style="list-style-type: none"> <li>SDI Video Input - 40 x 10-bit SD/HD/6G-SDI</li> <li>SDI Video Output - 40 x 10-bit SD/HD/6G-SDI</li> <li>Reference Input - Blackburst and TriSync for SD, HD and UHD 4K</li> <li>Multi-Rate Support - Auto detection of SD, HD, or 6G-SDI. Simultaneous routing of 4K, HD, SD video and DVB-ASI</li> <li>Updates - USB 2.0 high speed (480 Mb/s) interface or via Ethernet</li> <li>Control - 40 buttons for local control of Videohub <ul style="list-style-type: none"> <li>6 buttons and scroll wheel for control of LCD display</li> <li>1 x RJ45 Ethernet</li> <li>1 x RS-422 input for controlling router crosspoint switching</li> </ul> </li> <li>Configuration - Via front panel LCD or use either RJ45 Ethernet</li> <li>USB 2.0 for setting IP address only</li> <li>Reclocking - On all SDI outputs, auto switching between SD, HD, or 6G-SDI video</li> </ul> <p><b>Software</b></p> <ul style="list-style-type: none"> <li>Software Control - Router control included free for Windows and Mac OS X</li> <li>Internal Software Upgrade - Via included updater application</li> </ul> <p><b>General</b></p> <ul style="list-style-type: none"> <li>Display - 5" (12.7 cm) LCD for video and menu settings</li> <li>Power Supply - IEC power cables required; 2 x 90 to 240 VAC input(for redundancy)</li> </ul>	1	Buc.
1.7	32223000-2	<b>Converter multiview (Set)</b>	<p>1 to 16 Channel MultiViewer with HDMI output for 3G/HD/SD and Custom Layouts</p> <p>Support for both 3G level A and B on the inputs.</p> <p>Miniature (3G/HD/SD)-SDI 1 to 16 channel Multi-Viewer</p> <p>Custom Layouts with various standard layouts</p> <p>16 Character UMD overlay per window with individual enables, custom positioning and size</p> <p>Audio ID overlay</p> <p>Load and restore Custom Layouts</p> <p>Fast switching between inputs using Full-Screen scaling</p> <p>Selectable output format in both Full-Screen and Multi-Viewer mode</p> <p>Low latency buffering for each input allowing non-synchronous inputs</p> <p>16 x (3G/HD/SD)-SDI inputs with auto detection (26 Formats supported in total)</p> <p>Each window is independent of the others, allowing any 3G/HD/SD format of any frame rate to be displayed simultaneously</p> <p>Variable aspect ratios per window</p>	2	Buc.

			<p>Pass-Through mode allowing any of the 16 inputs to be selected and routed to the the HDMI output</p> <p>In Pass-Through mode the selected input is passed through to the HDMI output</p> <p>Also includes:</p> <ul style="list-style-type: none"> <li>USB port for control and firmware updates</li> <li>Heavy duty metal box</li> <li>Metal Thread Locking DC Power Socket</li> <li>Power Supply, HDMI Cable and USB Cable</li> </ul> <p><b>Monitor</b></p> <p>Display</p> <ul style="list-style-type: none"> <li>Series 8</li> <li>Screen Size 55"</li> <li>Resolution 3,840 x 2,160</li> </ul> <p>Video</p> <ul style="list-style-type: none"> <li>Picture Engine Crystal Processor 4K</li> <li>PQI (Picture Quality Index) 2200</li> <li>HDR (High Dynamic Range) HDR</li> <li>HDR 10+ Support</li> <li>HLG (Hybrid Log Gamma)</li> <li>Contrast Mega Contrast</li> <li>Color Dynamic Crystal Color</li> <li>Micro Dimming UHD Dimming</li> <li>Natural Mode Support</li> </ul> <p>Audio</p> <ul style="list-style-type: none"> <li>Dolby Digital Plus</li> <li>Q-Symphony Q-Symphony</li> <li>Audio Pre-selection Descriptor</li> <li>Sound Output (RMS) 20W</li> <li>Speaker Type 2CH</li> </ul> <p>Tuner/Broadcasting</p> <ul style="list-style-type: none"> <li>Digital Broadcasting DVB-T2C</li> <li>Analog Tuner</li> <li>CI (Common Interface) CI+(1.4) / CI+(1.4 ECP)_IT only</li> <li>Data Broadcasting HbbTV 2.0.2</li> <li>TV Key Support</li> </ul> <p>Connectivity</p> <ul style="list-style-type: none"> <li>HDMI 3</li> <li>USB 2</li> <li>Ethernet (LAN)</li> <li>Digital Audio Out (Optical) 1</li> <li>RF In (Terrestrial / Cable input) 1/1(Common Use for Terrestrial)/0</li> <li>CI Slot 1</li> <li>HDMI A / Return Ch. Support</li> <li>eARC</li> <li>HDMI Quick Switch</li> <li>Wireless LAN Built-in</li> <li>Bluetooth</li> <li>Anynet+ (HDMI-CEC)</li> </ul>		
1.8	32323000-3	<b>Studio Monitor</b>	<p><b>Features</b></p> <p>Full HD LCD panel 23,8" 1920×1080 pixel with LED back-lighting; Supports 4K-HDMI and 3G-SDI; 10-bit processing Video Processing; Special ZERO Latency Mode for critical Audio/Video applications; Webserver IP remote control; Safety area election: 80%, 85%, 90%, 93%, 95%; Scale marker: 4:3, 13:9, 14:9, 15:9, 1.85:1, 2.35:1; 3DLUT auto colour calibration; Built-in De-log LUTs; User 3DLUT upload; Selectable gamma preset 1.8, 2.2, 2.4 and 2.6.; 16-ch audio level meters with alert and output selection; Built-in waveform monitor, with Line-Selector (for HDSDI sources); Built-in vector scope and histogram monitor; H/V delay, freeze frame display mode; Frame/Field view selection; Native scan, over scan and normal scan selection; R/G/B/Mono, False color, Zebra stripes display; Focus assist display mode; USB Firmware update options; V-mount battery plate for field application; GPI control via RS485 port connection; 3 User setting data storage; 6 User definable function keys; On-screen TALLY display (Soft-and Hardware Tally); TSL UMD and User editable video title; SDI Timecode display; AFD (Active Format Description) info display</p> <p><b>Panel Specifications</b></p> <ul style="list-style-type: none"> <li>Panel size (diagonal in inch) - 23.8</li> <li>Panel resolution - 1920 X 1080 Pixels</li> <li>Panel Aspect Ratio - 16 to 9</li> <li>Panel Type LCD</li> <li>Panel Modulation IPS</li> <li>Back-light LED</li> <li>Brightness in cd/m<sup>2</sup> - 250</li> <li>Panel Bit depth: - 8</li> <li>Image Processing Bit depth - 10</li> <li>Viewing angle H/V - H 178 / V 178</li> <li>Contrast Ratio - 1000:1</li> </ul> <p><b>IN-OUT's Connections VIDEO</b></p> <ul style="list-style-type: none"> <li>Number of HDSDI Inputs - 2</li> <li>Input HDMI, HDMI 2.0</li> <li>Number of HDMI Inputs - 1</li> <li>Input RGB/VGA, Sub-D 15 PIN</li> <li>Input YUV, 3 x BNC</li> <li>Input Composite, BNC</li> <li>Numbers of Composite Inputs - 1</li> <li>Loop out HDSDI, 3G 2 x 2 (for each unit 2 outs)</li> </ul>	1	Buc.

			<p>Loop out HDMI, HDMI 2.0 Loop out Composite</p> <p><b>IN-OUT connections AUDIO</b> Audio Line IN, 2 times RCA Headphone out, 3.5 mm mini jack Speaker integrated, 2</p> <p><b>IN-OUT Connections Controls</b> GPI IN, RJ45 RS485/422 IN, RJ45 RS485/422 Loop out IP Ethernet Port, RJ45 USB Port, 2 x (1x for Firmware / 1 x Front for Color Probe)</p> <p><b>Dedicate Functions</b> SDI Timecode, LTC, VITC1&amp;2 R/G/B/Mono False color Peaking focus assist H/V delay Field/Frame mode, Field 1 / Field 2 Scan Modes - 4:3/16:9 Freeze frame Safety area markers, 80%, 85%, 90%, 93%, 95% Scale Markers, 4:3, 13:9, 14:9, 15:9, 1.85:1, 2.35:1 Tally via GPI, include IMD/UMD and Top LED Tally via TSL Protocol Tally Multi-Color, 3 colors Low Latency Mode, its special processing, only a view lines delay, so called zero latency, please no image adjustment during this mode. Environment Power Save function User presets, 3 Memories Auto Aspect, Analogue and Digital sources Picture Flip modes Direct Brightness/Contrast/Color control</p> <p><b>Dedicate Features</b> Auto source search Measurement and indication Tools – Waveform, Vector-scope, Histogram, Audio Level Meter</p> <p><b>Power and Enviroment Spec's</b> Power AC, Build in 110 V to 240 Volts Power DC, 11V to 17V DC Connector Type: - 4 PIN XLR</p> <p><b>Include Package</b> AC Power cord Others - Metal Display Stand</p>		
1.9	32323000-3	<b>Studio Monitor</b>	<p><b>Connections</b> SDI Video Input - Automatically switches between SD, HD and 3G-SDI. Reclocked loop through output. Multi Rate Support - Auto detection of 2K, HD or standard definition inputs. Updates and Configuration - Via USB 2.0 high speed (480 Mb/s) Ethernet - 10/100 BaseT with loop through. Tally - 9-pin D connector</p> <p><b>Standards</b> SDI Compliance - SMPTE 259M, SMPTE 292M, SMPTE 296M, SMPTE 372M, SMPTE 424M Level B and SMPTE 425M. SDI Color Space - REC 601, REC 709 SDI Auto Switching - Automatically selects between SD, HD and 3 Gb/s SDI. Video Sampling - 4:2:2 and 4:4:4 SDI Format Support - 525i59.94 NTSC, 625i50 PAL, 720p50, 59.94, 60; 1080p23.98, 24, 25, 29.97, 30, 50, 59.94, 60; 1080PsF23.98, 24, 25, 29.97, 30; 1080i50, 59.94, 60 2K Format Support - 1080p23.98, 24, 25; 1080PsF23.98, 24; 2K 23.98PsF, 24PsF, 25PsF</p> <p><b>Display</b> Display Element - TFT Active Matrix LCD. Display Resolution - 800 x 480 pixels Response - &lt; 15 ms Contrast Ratio - Typically 500:1 Color Depth - 16.7 Million Colors. Display Orientation - Displays can rotate upside down for optimum viewing angle.</p> <p><b>Software</b> Internal Software Upgrade - Via included firmware updater software. SmartView Utility Software - Via USB or Ethernet.</p> <p><b>Power Requirements</b> Power Supply - 12V universal power supply included with international socket adapters for all countries. Power Consumption - &lt; 20 Watts Operational Voltage Range - 12V - 15V</p>	1	Buc.
1.10	32323000-3	<b>Monitor</b>	<p>Display Series 8 Screen Size 55" Resolution 3,840 x 2,160</p> <p>Video Picture Engine Crystal Processor 4K PQI (Picture Quality Index) 2200 HDR (High Dynamic Range) HDR HDR 10+ Support</p>	6	Buc.

			<p>HLG (Hybrid Log Gamma)          Contrast Mega Contrast          Color Dynamic Crystal Color          Micro Dimming UHD Dimming          Natural Mode Support</p> <p>Audio          Dolby Digital Plus          Q-Symphony Q-Symphony          Audio Pre-selection Descriptor          Sound Output (RMS) 20W          Speaker Type 2CH</p> <p>Tuner/Broadcasting          Digital Broadcasting DVB-T2C          Analog Tuner          CI (Common Interface) CI+(1.4) / CI+(1.4 ECP)_IT only          Data Broadcasting HbbTV 2.0.2          TV Key Support</p> <p>Connectivity          HDMI 3          USB 2          Ethernet (LAN)          Digital Audio Out (Optical) 1          RF In (Terrestrial / Cable input) 1/1(Common Use for Terrestrial)/0          CI Slot 1          HDMI A / Return Ch. Support          eARC          HDMI Quick Switch          Wireless LAN Built-in          Bluetooth          Anynet+ (HDMI-CEC)</p>		
1.11	32223000-2	<b>Convertor</b>	<p><b>Key Features</b>          Converts 12G/6G/3G-SDI to Optical Fiber          Supports Signals up to DCI 4K25          Multi-Rate, Bidirectional Capability          Requires Separate SFP Optical Module          Automatic Input Signal Detection          16-Channel Embedded Audio Support          Diagrammed Function Switches          Update via Converter Utility Software          Locking, Universal Power Supply</p> <p><b>Input</b>          Video Input Connectors - 1 x BNC (12G-SDI)          Input Video Format - SDI (4:4:4/4:2:2 RGB, YUV)              DCI 4K: 23.98/24/25 fps              UHD 4K: 23.98/24/25/29.97/30/50/59.94/60 fps              DCI 2K: 23.98/24/25 fps              DCI 2KPsF: 23.98/24/25 fps              1080p: 23.98/24/25/29.97/30/50/59.94/60 fps              1080PsF: 23.98/24/25/29.97/30 fps              1080i: 50/59.94/60 fps</p> <p>Embedded Audio Input - SDI: 16-Channel</p> <p><b>Output</b>          Video Output Connectors - 1 x BNC (12G-SDI / 3G-SDI / 6G-SDI)          Output Video Format - SDI (10-Bit 4:4:4/4:2:2 RGB, YUV)              DCI 4K: 23.98/24/25 fps              UHD 4K: 23.98/24/25/29.97/30/50/59.94/60 fps              DCI 2K: 23.98/24/25 fps              DCI 2KPsF: 23.98/24/25 fps              1080p: 23.98/24/25/29.97/30/50/59.94/60 fps              1080PsF: 23.98/24/25/29.97/30 fps              1080i: 50/59.94/60 fps</p> <p>Embedded Audio Output SDI: 16-Channel</p> <p><b>Standards</b>          Video Standard Compliance - SMPTE 259M/292M/296M/297M/424M-B/425M/ST-2081; ITU -R BT.601</p> <p><b>Connectivity</b>          Expansion Slots - 1 x SFP Slot</p> <p><b>Power</b>          Power Connector - 1 x Barrel (6 to 36 VDC) Input          Power Consumption - Power Supply: 2 W</p>	12	Buc.
1.12	32223000-2	<b>3G SFP Optical Module</b>	<p><b>Key Features</b>          Standard SFP Cage          LC Fiber Connections          Supports SD and HD Resolutions          Add an LC fiber optic connection to any other professional device that supports SFP cages. 3G data rates support SD and HD resolutions, and the fiber optic communication allows for long-distance transmission without quality loss.</p> <p>Form Factor SFP cage          Fiber Connector Duplex LC Connectors          Compatible with Singlemode Fiber</p>	16	Buc.
1.13	32560000-6	<b>Cable</b>	<p><b>Customised 24 Fibres Indoor/Outdoor Single Mode OS2 Assembly LC, 2.0mm Breakout Cable</b>          Length - 120m          Connector A - LC UPC Simplex</p>	1	Buc.

			Connector B - LC UPC Simplex Alignment A to B - Fan-out in line 0.5m to Fan-out in line 0.5m Pulling Eye - Pulling Tube-Both Ends Packaging - Spool		
1.14	32560000-6	<b>Cable</b>	20m LC UPC to LC UPC Simplex OS2 Single Mode PVC (OFNR) 2.0mm Fibre Optic Patch	10	M.
1.15	32560000-6	<b>Cable</b>	5m LC UPC to LC UPC Simplex OS2 Single Mode PVC (OFNR) 2.0mm Fibre Optic Patch	24	M.
1.16	32560000-6	<b>Cable</b>	30m LC UPC to LC UPC Simplex OS2 Single Mode PVC (OFNR) 2.0mm Fibre Optic Patch	4	M.
1.17	32560000-6	<b>Panel</b>	Adapter Panel, 48 Fibres OS2 Single Mode, 24x LC UPC Duplex Adapter, Ceramic Sleeve	2	Buc.
1.18	32350000-1	<b>SDI Cable</b>	<b>construction</b> inner conductor: solid bare copper, Ø 0.60 mm insulation: Foam-Skin PE, gas injected , Ø 2.8 mm shielding: AL/PET/AL double-layer foil + tinned copper braid (92% coverage) outer jacket: FRNC overall diameter: 4.5 mm <b>mechanics</b> working temperature: -30°C / +70°C min. bending radius: 25 mm	200	M.
1.19	32350000-1	<b>SDI Connector</b>	<b>Product</b> Connection Type - BNC 75 Ω Gender – male <b>Crimp size</b> Pin: 1.6 mm (square) Shield: 5.0 mm (hex)	100	Buc.
1.20	32224000-9	<b>Stand</b>	<b>Lighting stand</b> (echivalent K&M 24624) Base dimensions - 550 x 550 mm Height from 1,400 to 2,400 mm Height adjustment - spring-loaded bolt and locking screw Leg construction - flat steel plate Material – steel Max. load capacity*18 kg Special features - integrated shock absorber; gradual height adjustment system; zinc die-cast connecting parts Type – black Weight - 17.49 kg	4	Buc.
1.21		<b>Instalare</b>	Instalarea și punerea în funcțiune a sistemului de camere video; Materiale și elemente pasive/active necesare pentru interconectarea echipamentelor și punerea în funcțiune a acestora; Lucrările de montare, precum și operațiunile de instalare, ajustare; Sistemul va fi predat la cheie; Garanția hardware minim 2 ani.	1	Buc.
Total lot = 2 200 000 Lei, fără TVA					

### Sistem Playout

Lot nr.2

2.1	48000000-8	<b>Playout Software</b>	<p>Suitable for 24/7 playout for news, music and movies channels, allowing to insert commercials and to switch between multiple live video.</p> <p>The supported output video modes SD, HD and 4K and you can play any media files (regardless of size or resolution) because the engine will automatically make the necessary resize and framerate trans-coding (and this works for any media file or live input).</p> <p>The software works unde Windows 7 / 8 /10 and Windows Server 2016 / 2019.</p> <p>The supported video modes are :</p> <p>HD1080p 23.98 / 24 / 25 / 29.97 / 30 / 50 / 59.94 / 60 HD1080i 50 / 59.94 HD720p 50 / 59.94 SD PAL / NTSC</p> <p>Features :</p> <ul style="list-style-type: none"> <li>- flexible workflow supporting both database and working with storage directly</li> <li>- client-Server architecture so multiple clients can manage the server over network</li> <li>- number of output channels per PC - 4 channels</li> <li>- live inputs - 4 inputs (allowing switching manually or automatically)</li> <li>- forced starting time can be assigned for clips or live inputs</li> <li>- automatically transcode for files and Live inputs ( so any file with size between 8K and 320 x 240 and the framerate between 3 and 120 fps can be used)</li> <li>- supported input and output cards: BlackMagic Design (Decklink &amp; Intensity )</li> <li>- NDI (Network Device Interface) support for inputs and outputs</li> <li>- import folders feature (to assign same metadata to all files taken from the folder)</li> <li>- advanced playlist editor supporting working with multiple level grouping</li> </ul> <p>Features added by the conformance recording module:</p> <ul style="list-style-type: none"> <li>- record the output of each channels using a H264 codec</li> </ul> <p>The loudness normalization allows using media without requiring a manual adjustment of the sound level.</p> <p>Other advantages of using the loudness normalization:</p> <ul style="list-style-type: none"> <li>- real-time automatically processing, without compression or distortion</li> <li>- offers the best results even if the audio has a high dynamic range</li> <li>- possibility to achieve a predictable loudness level</li> </ul> <p>The list of supported codecs and containers :</p> <p>H264 AVC Intra 50 / 100 .mxf H264 8 bit and 10 bit ( 4:2:0 / 4:2:2 ) .mp4 / .mov / .avi / .mkv / .ts Mpeg2 ps / ts ( 4:2:0 / 4:2:2 ) .mpeg / .mpg / .m2t XSCAM 35 and XdCAM 50 .mov / .mxf</p>	1	Buc.
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			IMX (for both PAL and NTSC) .mxf ProRes .mov HEVC 8 bit and 10 bit ( 4:2:0 / 4:2:2 ) .mp4 / .mov / .avi / .mkv / .ts DNxHD 8 bit and 10 bit .mov / .mxf DNxHR .mov / .mxf DV .avi / .mov / .mxf / .dv (rawDV) DVCPRO .avi / .mov DVCPRO HD .mov Uncompressed YUV 8 bit .avi / .mov Uncompressed YUV 10bit .avi / .mov Playout License Playout HD with 4 ch + Playout Audio Module + Conformance recording Echivalent cu MagicSoft Playout		
2.2	48000000-8	<b>Software Upgrade</b>	MagicSoft CG update from CG ver 7 HD to CG ver 8 HD (license will be installed/updated on USB dongle from CG version 7)	2	Buc.
2.3	48820000-2	<b>Server</b>	Server Cerințe Minime: -Chassis: 2U – 8 x 3.5 SATA, Single Socket; -Processor: CPU 16C/32T, Base Frequency: 2.1GHz, Turbo: 3.2Ghz, 22MB Cache, (100W); -Memory: 64 Gb DDR4 ECC RDIMM; -Boot Drive: 512Gb SSD; -Expansion Slots 4 PCI-E 3.0 x8 (FHFL) slots; 1 PCI-E 3.0 x8 (LP) slot -RAID Controller: RAID(0,1,5,6,10,50,60), 12Gb/s SAS and SATA controller with 1Gb Cache, with Cache Protection Module; -Hard Drive: 8 x 4TB 7.2k SATA 6Gbps, 256MB, HDD Enterprise 3.5; -Network: 2 x RJ45 10-Gigabit Ethernet; -Power Supply: 500W+, Redundant Power; -Rails for server rack; -Warranty: 3 Years; -Include Prelungitor 19 1.5U power socket, PDU02, 9 ports, 16A, 1.8M	1	Buc.
2.4	48820000-2	<b>Server</b>	Server Cerințe Minime: -Chassis: 2U GPU Server, Dual Socket; -Processor: 2 x CPU 16C/32T, Base Frequency: 2.1GHz, Turbo: 3.2Ghz, 22MB Cache, (100W); -Memory: 128 Gb DDR4 ECC RDIMM; -Expansion Slots 6 x PCI-E 3.0 x16 (double-width) slots 1 x PCI-E 3.0 x16/8 Low-profile -RAID Controller: RAID(0,1,5,6,10,50,60), 12Gb/s SAS and SATA controller with 2Gb Cache, with Cache Protection Module; -Hard Drive: 7 x 960GB 2.5" SATA 6.0Gb/s Solid State Drive; -GPU Accelerator 24GB GDDR6 - PCIe 3.0 x16 - Passive Cooling (4xDP) (Ray Tracing) echivalent la RTX6000 -Network: 2 x RJ45 10-Gigabit Ethernet; -Power Supply: 1500W+, Redundant Power; -Rails for server rack; -Warranty: 3 Years; -Include Prelungitor 19 1.5U power socket, PDU02, 9 ports, 16A, 1.8M	1	Buc.
2.5	32413100-2	<b>KVM extender</b>	KVM USB DisplayPort HDBaseT™ 2.0 Extender integrates the latest HDBaseT™ 2.0 technologies to deliver 4K video, stereo audio, USB, Ethernet, and RS-232 signals up to 100 meters using a single Cat6 / 2L-2910 Cat 6 cable. The HDBaseT™ 2.0 guarantees the most reliable transmission on the market as well as enables the long-reach capability that extends full HD 1080P signals up to 150 meters. With an easy cable installation supporting various signals, the KVM is ideal for applications where convenient remote access is required – such as transportation control centers, medical facilities, industrial warehouses, and extended workstations. Connectors Console Ports (Remote Unit) 1 x DisplayPort Female (Black) 3 x USB Type A Female 1 x Mini Stereo Jack Female (Green) 1 x Mini Stereo Jack Female (Pink) 1 x RJ-45 Female (Black) 1 x DB-9 Male (Black) 1 x DC Jack with locking 1 x RJ-45 Female (Black) 1 x Wakeup button Video Up to 4K@90m (Cat 5e) / 100m (Cat 6/6a/ATEN 2L-2910 Cat6); 1080P@100m (Cat 5e/6/6a); *4K supported: 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4) KVM Ports (Local Unit) 1 x DisplayPort Female (Black) 1 x USB Type B Female (White) 1 x Mini Stereo Jack Female (Green) 1 x Mini Stereo Jack Female (Pink) 1 x RJ-45 Female (Black) 1 x RJ-45 Female (Black) 1 x DB-9 Male (Black) 1 x DC Jack with locking Video Up to 4K@90m (Cat 5e) / 100m (Cat 6/6a/ATEN 2L-2910 Cat6); 1080P@100m (Cat 5e/6/6a); *4K supported: 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4) Features Supports HDBaseT™ 2.0 technology	2	Buc.



			<ul style="list-style-type: none"> <li>- Extends video, audio, USB, RS-232, and Ethernet signals via a single Cat6 / 6a / 2L-2910 Cat 6 cable</li> <li>- Enhanced bit error detection and correction to resist signal interference during high-quality video transmissions</li> <li>- Status detection and LED indication for HDBaseT™ signal transmission on remote unit</li> <li>EDID Buffer for smooth power-up and the highest quality display</li> <li>Long distance with superior video quality</li> <li>- HDBaseT™ Standard mode up to 4K @ 100m (Cat 6 / 6a / 2L-2910)</li> <li>- HDBaseT™ Long-Reach mode up to 1080P @ 150m</li> <li>Long Reach mode switch – switches between HDBaseT™ Standard and Long Reach modes in a snap</li> <li>USB 2.0 full speed ports – ensures fast transmission speeds for peripherals</li> <li>HDCP Compatible</li> <li>Supports individual 2-channel stereo audio for high-quality audio applications</li> <li>Supports PC wakeup function via single pushbutton through RS-232 channel*</li> <li>Built-in 8KV / 15KV ESD protection (Contact voltage 8KV; Air voltage 15KV)</li> </ul>		
		<b>Instalare</b>	<p>Instalarea și punerea în funcțiune a sistemului de Playout ;  Materiale și elemente pasive/active necesare pentru interconectarea echipamentelor și punerea în funcțiune a acestora;  Lucrările de montare, precum și operațiunile de instalare, ajustare;  Sistemul va fi predat la cheie; Garanția hardware minim 2 ani.</p>	1	Buc.
Total lot =770 000 Lei, fără TVA					

### Echipament audio

**Lot nr.3**

3.1	32330000-5	<b>AudioRack</b>	<p><u>24 Mic Preamps Inputs on XLR:</u>  Phantom Power LED per Input  Balanced, 48 V phantom power  Mic/Line Preamp: Fully recallable  Input Sensitivity: -60 to 15 dBu  Analogue Gain: 5 to 60 dB, 1 dB steps  Pad: -20 dB active pad  Maximum Input Level: 30 dBu (pad in)  Input Impedance: &gt;4 kOhms (pad out), &gt;10 kOhms (pad in)</p> <p><u>12 XLR Line Outs:</u>  Balanced, relay protected  Output Impedance: &lt;75 Ohms  Nominal Output: 4 dBu = 0 dB meter reading  Maximum Output Level: 22 dBu  Residual Output Noise: -92 dBu (muted, 20 to 20 kHz)</p> <p><u>Connection</u>  dSNAKE Connection with locking Ethercon port via Cat5  Mains Power 100 to 240 VAC, 50/60 Hz  Expander Ethercon port for connection to an AR84 or AB168</p>	1	Buc.
3.2	32330000-5	<b>Desktop Audio Meter</b>	<p><b>Desktop Audio Meter</b>  Stereo Audio Meter for Mixing, Mastering and Post Production  7" High Resolution Display (800x480) for accurate viewing  USB connection for smooth plug-in integration  Supports AU, VST &amp; AAX plug-ins and all major broadcast standards including ITU BS.1770-4, ATSC A / 85, EBU R128, TR-B32 and OP-59</p> <p><b>Features:</b>  Vectorscope for detailed L / R analysis  Real Time Analyzer  Balance O-meter for L / R and M / S  Correlation display for phase problems  True Peak Meter  LM6 Loudness Radar</p> <p><b>Connections:</b>  Stereo 96 kHz AES3 digital audio at 75 Ohm BNC connection for broadcast measurement  Optical S / PDIF input stereo (Toslink)  USB 2.0 (Micro Type B)  Incl. power supply, USB cable (1 meter) and bracket for table installation  (Echivalent cu TC electronic Clarity M Stereo)</p>	3	Buc.
3.3	32223000-2	<b>Converter (set)</b>	<p>Converter de-embedder (2 pcs), including rack shelf (1pcs).  Connections:  1 x 12G-SDI SD/HD/2K/4K auto switching.  1 x 12G-SDI loop output  Embedded Audio Support - 16 channels  4 channels professional 110Ω balanced digital audio via XLR connectors. Right XLR can be configured for timecode output  2 channels professional balanced analog audio via XLR connectors, or 2 channel unbalanced analog line level via RCA connectors. Right XLR can be configured for timecode output  S/PDIF Signal with TOSLINK Connector  Automatic switching between SD/HD/2K and 4K  Updates and Configuration - USB or Ethernet  Re-Clocking</p>	1	Buc.
3.4	32223000-2	<b>Converter (set)</b>	<p>Converter embedder (2 pcs), including rack shelf (1 pcs).  Connections:  1 x 12G-SDI SD/HD/2K/4K auto switching  1 x 12G-SDI output</p>	1	Buc.

			<p>2 channels professional balanced analog audio via XLR connectors, or 2 channel unbalanced analog line level via RCA connectors. Right XLR can be configured for timecode input</p> <p>4 channels professional 110Ω balanced digital audio via XLR connectors. Right XLR can be configured for timecode input</p> <p>S/PDIF Signal with TOSLINK Connector</p> <p>Automatic switching between SD/HD/2K and 4K</p> <p>Automatic switching between SD/HD/2K and 4K</p> <p>Updates and Configuration - USB or Ethernet</p> <p>Re-Clocking</p>		
3.5	32330000-5	<b>Sistem microfon lavaliera</b>	<p><b>Dual Wireless System with two Bodypack Transmitters and two microfons (Set)</b></p> <p>Frequency range: S50</p> <p><b>Receiver</b> (echivalent cu SLXD4D)</p> <p>Form Factor - Tabletop / Rackmount</p> <p>Mounting Options - Rackmount (with Included Hardware)</p> <p>Rackmount Size - 1 RU (Full Rack)</p> <p>Antenna - 2 x 1/4 Wave External, BNC (Rear-Mount)</p> <p>Number of Audio Channels - 2</p> <p>Audio I/O - 2 x XLR 3-Pin Male Balanced Mic/Line Output 2 x 1/4" TRS Female Balanced Output</p> <p>Gain Range - 0 to +21 dB (3 dB Steps)</p> <p>Pad - 30 dB</p> <p>Audio Output Level - -18 to +42 dB (Balanced, Unbalanced)</p> <p>Frequency Response - 20 Hz to 20 kHz +1/-2 dB (Dependent on Mic)</p> <p>Impedance - 1/4" Outputs: 1.3 Kiloohms (Balanced); 670 Ohms (Unbalanced) XLR Outputs: 400 Ohms (Balanced); 150 Ohms (Balanced)</p> <p>Approximate RF Sensitivity - -97 dBm</p> <p>Adjacent Channel Isolation - &gt;70 dB</p> <p>AC/DC Power Adapter - 15 VDC at 600 mA, Center-Positive (Included)</p> <p>AC Input Power - 100 to 240 VAC, 50 / 60 Hz</p> <p>Display &amp; Indicators - LCD (AF Level, Channel, Frequency, Group, RF Level, Transmitter Battery Status)</p> <p>Housing - Steel</p> <p><b>Transmitter</b> (echivalent cu SLXD1)</p> <p>Form Factor - Bodypack</p> <p>RF Output Power - 1 / 10 mW</p> <p>Audio I/O - 1 x TA4/Mini XLR 4-Pin Male Unbalanced Input (Lockable)</p> <p>Gain Range - 0 +21 dB</p> <p>Sync Method - IR</p> <p>Antenna - 1/4 Wave External, Fixed</p> <p>Power Requirements - Battery</p> <p>Battery Type - 2 x AA; 1 x SB 903</p> <p>Battery Charging Time - 1.25 to 5.5 Hours</p> <p>USB/Lightning Connectivity - None</p> <p>Display &amp; Indicators - LCD (Battery Status, Channel, Group)</p> <p>Housing - ABS, Plastic</p> <p><b>Microphone</b> (Echivalent cu WL183)</p> <p>Form Factor - Lavalier</p> <p>Sound Field - Mono</p> <p>Capsule - Electret Condenser</p> <p>Polar Pattern - Omnidirectional</p> <p>Pad - None</p> <p>High-Pass Filter - None</p> <p>Indicators - None</p> <p>Windscreen - Foam</p> <p>Performance</p> <p>Frequency Range - 50 Hz to 17 kHz</p> <p>Maximum SPL - 125 dB SPL</p> <p>Impedance - 1800 Ohms</p> <p>Sensitivity - -40 dBV/Pa</p> <p>Dynamic Range 102.5 dB</p> <p>Equivalent Noise Level - 22.5 dB SPL A-Weighted</p> <p>Connectivity</p> <p>Output Connectors - 1 x TA4/Mini XLR 4-Pin Female (TQG)</p> <p>Cable Length - 1.22 m</p> <p>Physical</p> <p>Color - Black</p> <p>Mounting - Alligator Clip, Tie Tac Clip (Included)</p>	2	Buc.
3.6	32330000-5	<b>Pro Wireless In-Ear Monitor Kit (Set)</b>	<p>Pro Wireless In-Ear Monitor Kit includes a wireless transmitter, two wireless bodypack receivers, 4 battery pack and two chargers. Include a 1/4 wave antenna, a BNC bulkhead adapter and cable, a power supply,, six pairs of flex sleeves (S, M, L), two drawstring pouches, and two zipper bags for the receivers.</p> <p><i>Wireless Transmitter (1pcs)</i></p> <p><b>Performance</b></p> <p>Transmission Range - 90 m</p> <p>RF Output Power - 10, 20, 30 mW</p> <p>RF Output Impedance - 50 Ohms (typical)</p> <p><b>Audio Input</b></p> <p>Connector Type - 1/4" TRS (6.35 mm)</p> <p>Polarity - Tip positive with respect to ring</p> <p>Configuration - Electronically balanced</p> <p>Impedance - 40 kOhms (actual)</p> <p>Nominal Input Level - Switchable, +4 dBu, -10 dBV</p> <p>Maximum Input Level - +4 dBu: +22 dBu; -10 dBV: +12.2 dBu</p>	1	Buc.

			<p>Pin Assignments - Tip=hot, Ring=cold, Sleeve=ground Phantom Power Protection - Up to 60 VDC</p> <p><b>Audio Output</b> Connector Types - 1/4" TRS (6.35 mm) Configuration - Electronically balanced Impedance - Connected directly to inputs</p> <p><b>General</b> Antenna - 1/4 wave, detachable Power Requirement - 12 to 15 VDC, 260 mA maximum <i>Wireless Bodypack Receiver (2pcs)</i> RF Sensitivity - Active: 2.2 µV (at 20 dB SINAD) Image Rejection - &gt; 90 dB Adjacent Channel Rejection - &gt; 60 dB Intermodulation Attenuation - &gt; 50 dB Blocking - &gt; 60 dB Audio Output Power-80mW per output Minimum Load Impedance - 16 Ohms Headphone Output - 1.8" (3.5 mm), stereo Continuous Battery Life - 4 to 5.5 hours, AA batteries <i>Dual Docking Recharging Station (2 Pcs)</i> equivalent SBC200 Fits P3RA, P9R, P10R, UR5, ULX-D and QLX-D series For two Li-Ion batteries and/or hand-held or pocket transmitters Can be linked together Includes PS45 power supply for up to 4 units <i>Battery pack (4 Pcs):</i> Li-Ion Akku (3,7V/1320mAh) Equivalent cu SB900B</p>		
3.7	32330000-5	<b>Commentator Unit</b>	<p><b>Commentator Unit 2 Commentators &amp; 1 Guest</b> (Equivalent CM-CU21)</p> <p><i>Features</i> 2 Commentator positions plus a guest position, each with individual outputs; plus 2 mix outputs. Talkback outputs selectable by the two main commentators, with built in limiter. 4 Return audio circuits that are routed to headphones along with all the commentator inputs. Any source can be individually level controlled and sent to left, right or both ears. A wide input gain range and switchable phantom power on each commentary position allows support of a variety of microphone types including low output ribbon, headsets and high output phantom powered microphones. Individually switched 48V phantom power on all microphone inputs. User preset adjustable limiter on main mix outputs with limit activity indication. Built in line-up tone for initial cabling checks. 21 Segment LED PPM meter showing main output level.</p> <p><i>Technical Specification</i> <b>Main Panel Operational Controls &amp; Indicators</b> On-Air 1-3 Buttons: Illuminated buttons with latching action Talkback A &amp; B Buttons: Illuminated buttons with selectable momentary and/or latching action Headphone Monitor Controls: Input source level adjustment potentiometers Headphone channel selection switches Line Input Level: Guest position line input mode level potentiometer PPM Meter: 21 segment display showing mix output level, brightness level Is selectable Limit LED indicates mix output limiter is active, colour &amp; brightness level is selectable Power LED indicates operating mode; normal or setup</p> <p><b>Front Panel Operational Controls</b> Phantom: Switch to enable 48V microphone phantom power for positions 1 &amp; 2 Phantom/Line: Switch to enable 48V microphone phantom power or select line input mode for position 3 Mic Gain: Microphone gain potentiometer and range select switch selects +20-+56dB or +50-+86dB</p> <p><b>Rear Panel Operational Controls</b> On Air Lock: Switch to prevent On Air controls from being deactivated Momentary push-button to override on air lock T/B Gang: Switch to link operation of talkbacks A &amp; B T/B Gain: 0dB - +12dB Limiter: Switch to enable limiter on mix outputs Limit level adjustment potentiometer Test Tone: Switch to enable 1 kHz line-up tone</p> <p><b>Front Panel Connections</b> Headphone Outputs: 2 x locking headphone jack socket for positions 1 &amp; 2; 1 x headphone jack socket for position 3 Microphone Inputs: 2 x XLR-3 pin latching female for positions 1 &amp; 2 Microphone/Line Input: 1 x XLR-3 pin latching female for position 3</p> <p><b>Rear Panel Connections</b> Prog, A, B &amp; C Inputs: 4 x XLR-3 pin female (transformer balanced) Comm1-3 Outputs: 3 x XLR-3 pin male (electronic balanced) Talkback A &amp; B Outputs: 2 x XLR-3 pin male (transformer balanced) Mix 1 &amp; 2 Outputs: 2 x XLR-3 pin male (transformer balanced) GPIO Port: 15-way 'D'-type socket Mains Input: Universal filtered IEC, continuously rated 85-264VAC, 47-63Hz, 10W Fuse Rating: Anti-surge fuse 1A 20 x 5mm DC Input: XLR-4 pin male 12V DC, 650mA Typical, 850mA Maximum 24V DC, 325mA Typical, 425mA Maximum Earth Point: M4 stud.</p>	1	Buc.
3.8	32330000-5	<b>Source Selector, Switcher</b>	<p><b>10 Way Stereo Analogue Source Selector/Mixer</b> (Equivalent RB-SS10) 10 way stereo analogue source selector/mixer is a 1U rack-mount unit that produces a stereo analogue audio output from 10 selectable stereo analogue sources. There are 10 illuminated front panel push-buttons, which select and indicate the current channel</p>	1	Buc.

			<p>selection. The selection and indication is also available through a remote connector on the rear panel. To stop accidental front panel selection there is a remote input to inhibit the front panel buttons.</p> <p><u>Connections</u></p> <p>Inputs: 4 x XLR 3 pin female (2 x stereo) (balanced, can be unbalanced) 2 x 25 way D-type socket (female) (4 stereo balanced channels on each)</p> <p>Outputs: 2 x XLR 3 pin male (stereo balanced, can be unbalanced)</p> <p>Remote Start I/O: 25 way D-type plug (male)</p> <p>Remote Select/Switch Inputs: 25 way D-type socket (female)</p> <p>Status Outputs: 25 way D-type socket (female)</p> <p>Mains Input: Filtered IEC, 110V-120V, or 220-240V switchable, fused, 6W maximum</p> <p>Fuse Rating: Anti-surge fuse 160mA 20 x 5mm (230VAC), Anti-surge fuse 315mA 20 x 5mm (115VAC)</p>		
3.9	32330000-5	<b>Headphones</b>	<p>Headphones, Frequency response (Headphones) 18–20,000 Hz (-10 dB);</p> <p>Sound pressure level (SPL) 120dB (1kHz/1Vrms);</p> <p>THD, total harmonic distortion &lt;0.5% (1kHz/100dB);</p> <p>Ear coupling Over-Ear;</p> <p>Jack plug 3.5mm angled;</p> <p>Cable length 1.4m;</p> <p>(Equivalent HD 400S)</p>	5	Buc.
3.10	32330000-5	<b>Broadcast Headset</b>	<p><b>Dual-sided broadcast headset</b> (Equivalent BRH440M)</p> <p><u>Features</u></p> <p>Closed-back, circumaural design provides excellent isolation from background noise</p> <p>Dynamic microphone delivers natural, highly intelligible vocal reproduction with cardioid polar pattern and frequency response optimized for communication in loud environments</p> <p>Ergonomic, lightweight design with adjustable, padded headband for long wearing comfort</p> <p>Flexible boom microphone pivots 270 degrees for left or right side wear</p> <p>Flip-up mute function deactivates the boom microphone when raised vertically away from the mouth</p> <p>Single-side, detachable cable (sold separately) enables connection to a variety of devices</p> <p>User-replaceable cable, ear pads and windscreen provided for a long product life</p> <p><u>Microphone</u></p> <p>Type Dynamic (moving coil)</p> <p>Polar Pattern Cardioid</p> <p>Frequency Response 50 to 15,000 Hz</p> <p>Output Impedance 200 Ohms</p> <p>Sensitivity (@1 kHz, open circuit voltage) -67.0 dBV/Pa (0.45 minimum) 1Pa-94 dB SPL</p> <p>Polarity Positive pressure on diaphragm produces positive voltage on pin 1 (red wire) with respect to pin 3 (shield)</p> <p><u>Headphone</u></p> <p>Transducer Type Dynamic, Neodymium magnet</p> <p>Driver Size 40 mm</p> <p>Frequency Range 15 to 27,000 Hz</p> <p>Sensitivity (@ 1 kHz) 101 dB/mW</p> <p>Impedance (@ 1 kHz) 300 Ohms</p> <p>Maximum Input Power 1000 mW</p> <p>Include cable XLR and 6.3 mm jack (BCASCA-XLR3QI)</p> <p>Include Replacement Single-Sided Detachable Cable (BCASCA1)</p>	3	Buc.
3.11		<b>Instalare</b>	<p>Materiale și elemente pasive/active necesare pentru interconectarea echipamentelor și punerea în funcțiune a acestora;</p> <p>Lucrările de montare, precum și operațiunile de instalare, ajustare;</p> <p>Sistemul va fi predat la cheie; Garanția hardware minim 2 ani.</p>	1	Buc.
Total lot = 300 000 Lei, fără TVA					

### System promter

Lot nr.4

4.1	32224000-9	<b>System promter</b>	<p>System promter (echivalent Autoscript WinPlus-IP)</p> <p>Software: (1 pcs)</p> <p>Software offers compatibility with all leading NRCS including: Avid iNews, Dalet. MOS Protocol devices supported include: Annova Open Media, AP ENPS, News Works, Octopus, Dayang, Sobey, NIS4, Inception &amp; Eidos Media. Software enables instant script updates from Newsroom systems. The connectivity status of each Newsroom is viewable at a glance and can be given a user defined name for easy reference. Busy productions will benefit from having multiple rundowns loaded for multi-programme operation. With multi-language compatibility,</p> <p>Includes:</p> <p>Closed caption options enable script to be outputted for captions/subtitles</p> <p>Multiple rundowns loaded for multi-programme operation</p> <p>Instant script updates from NRCS for seamless newsroom workflow</p> <p>Newsroom connectivity status displayed for easy monitoring</p> <p>User definable friendly name &amp; newsroom connection type ensures simple setup</p> <p><b>Prompter Device: (1 Pcs)</b></p> <p>An extremely compact scroll engine. As an Intelligent Prompting device it networks via Ethernet to prompting software application, where users are able to monitor status, manage group updates and remote upgrades. Dual HD-SDI outputs support the distribution of the teleprompter video to traditional prompt monitors. In addition a Power over Ethernet output can be used to power an Intelligent Prompting scroll control – ideal for single controller setups. In a tough, portable casing with LED status indicator, the</p>	1	Buc.
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			<p>XBox-IP offers a modern solution for solo operators and users looking to retain HD/HD-SDI monitors.</p> <p>Features:</p> <ul style="list-style-type: none"> <li>Compact, portable unit</li> <li>Dual HD-SDI output distributes script video to traditional prompt monitors</li> <li>Dual USB ports</li> <li>PoE output for scroll control avoids the need for 3rd party equipment in single-controller setups</li> <li>Network and status indicator</li> </ul> <p><b>Desktop Hand Control: (2 Pcs.)</b></p> <ul style="list-style-type: none"> <li>Wrist support and neutral hand position ensures comfortable, safe operation</li> <li>Central button positioning supports left and right-handed operation</li> <li>Two illuminated function buttons programmable in software to suit the operator's desired configuration</li> <li>Powered over Ethernet to simplify integration and reduce cabling</li> </ul> <p><b>Foot Scroll Control: (3 Pcs.)</b></p> <ul style="list-style-type: none"> <li>Adjustable sensitivity and range to suit unique user profiles</li> <li>Programmable function button allows operator to select their desired configuration</li> <li>Powered over Ethernet to simplify integration and reduce cabling</li> <li>Remote configuration in software</li> </ul> <p><b>Wireless Controller and Base Station Package (1 pcs)</b></p> <ul style="list-style-type: none"> <li>Intelligent Prompting wireless controller and base station package</li> <li>Allows total freedom for the presenter to move around a studio and control the speed of the prompted text</li> </ul> <p>Include 8-port POE+ Switch (Power Budget min 100W) (1 pcs)</p>		
4.2		<b>Instalare</b>	<p>Instalarea și punerea în funcțiune a sistemului de promter;</p> <p>Materiale și elemente pasive/active necesare pentru interconectarea echipamentelor și punerea în funcțiune a acestora;</p> <p>Lucrările de montare, precum și operațiunile de instalare, integrare, ajustare;</p> <p>Sistemul va fi predat la cheie; Garanția hardware minim 2 ani.</p>	1	Buc.
Total lot = 350 000 Lei, fără TVA					

### Obiectiv

### Lot nr.5

5.1	38651100-4	Obiectiv	<p><b>Specs</b></p> <ul style="list-style-type: none"> <li>24-70mm F/2.8 GM</li> <li>Focal Length 24 to 70mm</li> <li>Maximum Aperture f/2.8</li> <li>Minimum Aperture f/22</li> <li>Format Compatibility Full-Frame</li> <li>Angle of View 84° to 34°</li> <li>Minimum Focus Distance 1.25' / 38 cm</li> <li>Maximum Magnification 0.24x</li> <li>Optical Design 18 Elements in 13 Groups</li> <li>Diaphragm Blades 9, Rounded</li> <li>Focus Type Autofocus</li> <li>Image Stabilization None</li> <li>Filter Size 82 mm (Front)</li> <li>Dimensions (ø x L) 87.6 x 136 mm</li> <li>Weight 886 g</li> </ul> <p><b>Specs UV FILTER</b></p> <ul style="list-style-type: none"> <li>Type UV</li> <li>Circular Polarizer</li> <li>Size 82 mm</li> <li>UV: 3.4 mm-thick</li> <li>Circular polarizer: 6.2 mm-thick</li> <li>Filter Factor UV: 1 (0 stop)</li> <li>Circular polarizer: About 2.5 (1.3 stops)</li> <li>Multi-Coated Yes; 12-layer multi-coating</li> <li>Rotating UV: No</li> <li>Circular polarizer: Yes</li> <li>Effect UV: Absorbs UV light and reduces bluish cast from daylight</li> <li>Circular polarizer: Reduce/eliminate reflections and haze and improve color and tonal saturation</li> <li>Construction Schott glass</li> <li>Anodized aluminum filter ring with top knurling</li> <li>Front Filter Thread Size 82 mm</li> <li>Front Lens Cap Size 82 mm</li> </ul>	1	Buc.
Total lot = 40 000 Lei, fără TVA					

### Echipament de rețea

### Lot nr.6

6.1	32400000-7	<b>Switch</b>	<p><b>Modular Stackable L3 Managed Switch</b> echivalent la Netgear M4300-96X</p> <p>Cerințe minime:</p> <ul style="list-style-type: none"> <li>Modular 1-unit 2U rack mount;</li> <li>CPU : 1.4 Ghz, Ram: 2GB, Flash Memory: 256MB;</li> </ul> <p><i>Features</i> : 96MB packet buffer, Access Control List (ACL) support, ARP support, Bridge protocol data unit (BPDU), DHCP relay, DHCP snooping, DiffServ support, Dynamic ARP protection, Front to back airflow, IP source guard, IPv4 support, IPv6 support,</p>	1	Buc.
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			<p>LACP support, LISP Across Subnet Mode (ASM), MLD snooping, Modular design, Neighbor Discovery Protocol (NDP), Per-VLAN Rapid Spanning Tree (PVRST), Quality of Service (QoS), Rapid Spanning Tree Protocol (RSTP) support, Remote Switch Port Analyzer (RSPAN), Source-Specific Multicast (SSM), Spanning Tree Protocol (STP) support, STP Root Guard, Virtual Route Redundancy Protocol (VRRP) support, IEEE 802.1AX, IEEE 802.3ad (LACP), IEEE 802.3az;</p> <p>Remote Management Protocol: CLI, HTTPS, SNMP 1, SNMP 2, SNMP 3, SSH, Telnet;</p> <p>Switching capacity: 1.92 Tbps;</p> <p>Throughput: 2.857 Mpps;</p> <p>Capacity:</p> <p>Virtual interfaces (VLANs): 4093</p> <p>IPv4 routes (static): 64</p> <p>IPv6 routes (static): 64</p> <p>RIP routes: 512</p> <p>ARP entries: 8000</p> <p>OSPF routes: 12000</p> <p>Static ARP entries: 128</p> <p>Switchul va fi echipat cu următoarele module:</p> <p><b>6 x APM408C</b> - 8x10GBASE-T Port Card - 100M/1G/2.5G/5G/10G;</p> <p><b>2 x APM408P</b> - 8x10GBASE-T PoE+ Port Card - 100M/1G/2.5G/5G/10G;</p> <p><b>2 x APM408F</b> - 8xSFP+ Port Card - 1G/10G;</p> <p>Switchul va fi echipat cu următoarele accesorii:</p> <p>12 x SFP+ Transceiver: 10GBase-LR single mode LC duplex connector up to 2km;</p> <p>10 x Patch Cord RJ-45 , Cat. 6A or Cat. 7 , support 10 Gigabit Ethernet, lungime: 3M;</p> <p>20 x Patch Cord RJ-45 , Cat. 6A or Cat. 7 , support 10 Gigabit Ethernet, lungime: 5M;</p> <p><i>Power Supply</i>: 1200W, 1+1 redundant power for PoE applications;</p> <p>-Warranty: 3 Years;</p>		
6.2	32413100-2	<b>Router</b>	<p>24 port Gigabit Ethernet switch with two SFP+ ports (equivalent CRS326-24G-2S) Specifications</p> <p>Architecture - ARM 32bit</p> <p>CPU - 98DX3236</p> <p>CPU core count - 1</p> <p>CPU nominal frequency - 800 MHz</p> <p>RouterOS license - 5</p> <p>Operating System - RouterOS / SwitchOS</p> <p>Size of RAM - 512 MB</p> <p>Storage size - 16 MB</p> <p>Storage type - FLASH</p> <p>MTBF - Approximately 200'000 hours at 25C</p> <p>Powering</p> <p>Number of DC inputs - 2 (DC jack, PoE-IN)</p> <p>DC jack input Voltage - 10-30 V</p> <p>Max power consumption - 24 W</p> <p>FAN count - Passive</p> <p>PoE in - Passive PoE</p> <p>PoE in input Voltage - 10-30 V</p> <p>Ethernet 10/100/1000 Ethernet ports - 24</p> <p>Fiber SFP+ ports - 2</p> <p>Peripherals Serial console port - RJ45</p>	1	Buc.
6.3	32413100-2	<b>Ethernet router</b>	<p>The CWDM passive MUX/DEMUX unit, which allows to combine up to eight fiber links into one, to simplify and reduce the cost of long distance fiber installations. At the other location, the combined line is split back up again, so that instead of eight long fiber lines, you would only need one. The Coarse Wavelength-Division Multiplexing (CWDM) technology offers a solution which will increase capacity of existing fiber infrastructure by enabling multiple channels/wavelengths over the same fiber cabling and will reduce costs for a new fiber optic deployment.</p> <p>Single optical fiber cable to create up to eight independent 1.25Gbps SFP (up to 40km) or 10Gbps SFP+ (up to 10km) links, offering more affordable alternative to installing more fiber or leasing additional fibers.</p> <p>Include:</p> <p>CWDM-MUX8A</p> <p>1U Chassis bracket for CWDM 8-port MUX/DEMUX</p> <p>2 x S+C61DLC10D</p> <p>2 x S-C47DLC40D</p> <p>2 x S-C49DLC40D</p> <p>2 x S-C51DLC40D</p> <p>2 x S-C53DLC40D</p> <p>2 x S-C55DLC40D</p> <p>2 x S-C57DLC40D</p> <p>2 x S-C59DLC40D</p> <p>2 x S-C61DLC40D</p>	2	Buc.
Total lot = 406 666,66 Lei, fără TVA					

**9. Admiterea sau interzicerea ofertelor alternative: Nu se admite**

**10. Termenii și condițiile de livrare/prestare/executare solicitată:** *Livrarea bunurilor se va realiza în termen de 55 de zile de la intrarea în vigoare a contractului, iar prestarea serviciilor în decurs de 5 zile de la solicitarea Cumpărătorului.*

**11. Termenul de valabilitate a contractului: 31.12.2021**

**12. Scurta descriere a criteriilor privind eligibilitatea operatorilor economici care pot determina eliminarea acestora și a criteriilor de selecție; nivelul minim (nivelurile minime) al (ale) cerințelor eventual impuse; se menționează informațiile solicitate (DUAE, documentație):**

Nr.	Denumirea documentului/cerințelor	Mod de demonstrare a îndeplinirii cerinței:	Obl.
1	Oferta financiară	Formularul (F 3.1) semnat cu semnătură electronică avansată calificată	Da
2	Specificații tehnice	Formularul ( F 4.1) semnat cu semnătură electronică avansată calificată	Da
3	Specificații de preț	Formularul ( F 4.2) semnat cu semnătură electronică avansată calificată	Da
4	Garanția pentru ofertă	În cuantum de 1% din valoarea ofertei fără TVA Garanția pentru ofertă sau formularul garanției bancare (F3.2), Semnat cu semnătura electronică avansată calificată	Da
5	Formular standard al Documentului Unic de Achiziții European (DUAE)	Semnat cu semnătură electronică avansată calificată	Da
6	Dovada înregistrării persoanei juridice, în conformitate cu prevederile legale din țara în care ofertantul este stabilit	Certificat/decizie de înregistrare a întreprinderii; extras din Registrul de Stat al persoanelor juridice din care sa rezulte adresa actuala și obiectul de activitate al societății –Semnate cu semnătură electronică avansată calificată	Da
7	Certificat privind lipsa sau existenta restanțelor fata de bugetul public național	Semnat cu semnătură electronică avansată calificată	Da
8	Informații generale despre ofertant	Formularul informativ despre ofertant, semnat cu semnătură electronică avansată calificată	Da
9	Garanția de bună execuție	Garanția de bună execuție, completată în conformitate cu formularul F 3.3. – Original sau transfer pe contul autorității contractante. <i>Notă: Va fi prezentată la semnarea contractului de către operatorul economic învingător.</i>	Da
10	Raport financiar	Ultimul raport financiar - Semnat cu semnătură electronică avansată calificată	Da
11	Certificat de atribuire a contului bancar eliberat de banca deținătoare de cont după data punerii în aplicare a codurilor IBAN	Varianta scanată de pe original confirmată prin semnătura electronică avansată calificată.	Da
12	Numărul de înregistrare	Numărul de înregistrare din „Lista producătorilor” conform Regulamentului privind deșeurile de echipamente electrice și electronice aprobat prin H.G. nr. 212 din 07.03.2018	Da
13	DECLARAȚIE privind confirmarea identității beneficiarilor efectiv și neîncadrarea acestora în situația condamnării pentru participarea la activități ale unei organizații sau grupări criminale, pentru corupție, fraudă și/sau spălare de bani.	Întocmită conform Ordinului Ministrului Finanțelor nr. 145 din 24 noiembrie 2020. Varianta scanată de pe original confirmată prin semnătura electronică avansată calificată <i>Notă: Va fi prezentată de către operatorul economic învingător în termen de 5 zile de la data comunicării rezultatelor procedurii de achiziție publică</i>	Da
14	Minim ani de experiență specifică în livrarea bunurilor și/sau serviciilor similare	Ofertantul va avea minim 5 ani de experiență specifică în livrarea bunurilor similare. Pentru demonstrarea îndeplinirii acestei cerințe operatorul economic va anexa acte doveditoare (contracte executate sau in derulare/ scrisori de recomandare, etc.) Varianta scanată de pe original și aplicată semnătura electronică avansată calificată.	Da

**IMPORTANT:** *În conformitate cu Legea privind achizițiile publice nr.131 din 03.07.2015 și anume, art.65 alin. (4), prezentarea ofertei presupune în mod obligatoriu depunerea „ofertei tehnice (F4.1), ofertei financiare (F4.2), formularului DUAE și garanția pentru ofertă”.*

**13. Tehnici și instrumente specifice de atribuire (dacă este cazul specificați dacă se va utiliza acordul-cadru, sistemul dinamic de achiziție sau licitația electronică):** *Licitație electronică, 3 runde, valoarea pasului minim 1%*

**14. Criteriul de evaluare aplicat pentru adjudecarea contractului:** *Prețul cel mai scăzut pe lot și corespunderea cerințelor caietului de sarcini.*

**15. Termenul limită de depunere/deschidere a ofertelor:** **Conform SIA RSAP**

**16. Adresa la care trebuie transmise ofertele sau cererile de participare:**

*Ofertele sau cererile de participare vor fi depuse electronic prin intermediul SIA RSAP*

- 17. Termenul de valabilitate a ofertelor: 60 de zile**
- 18. Locul deschiderii ofertelor: SIA RSAP Mtender**  
*Ofertele întârziate vor fi respinse.*
- 19. Limba sau limbile în care trebuie redactate ofertele sau cererile de participare: limba de stat. Operatorii economici nerezidenți vor prezenta înscrisurile însoțite de traducere în limba română sau rusă.**
- 20. Respectivul contract se referă la un proiect și/sau program finanțat din fonduri ale Uniunii Europene: Nu**
- 21. Denumirea și adresa organismului competent de soluționare a contestațiilor:**  
*Agencia Națională pentru Soluționarea Contestațiilor*  
*Adresa: mun. Chișinău, bd. Ștefan cel Mare și Sfânt nr.124 (et.4), MD 2001;*  
*Tel/Fax/email: 022-820 652, 022 820-651, contestatii@ansc.md*
- 22. Data publicării anunțului de intenție sau, după caz, precizarea că nu a fost publicat un astfel de anunț: BAP nr. 82 din 01.12.2020**

**Conducătorul grupului de lucru:**

**Sorocean Tatiana**